

Tennessee Department of Environment and Conservation

Division of Water Resources

William R. Snodgrass-Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, TN 37243 (615) 532-0625

CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) STATE OPERATING PERMIT (SOP) - NOTICE OF INTENT (NOI)

Type of permit you are reque	esting: SOPCD0000 (design	ned to discharge) SOPC0	0000 (no discharge) 🔲 Unl	known, please advise
Application type:	☐ New Permit	Permit	Reissuance	Pen	mit Modification
	If this NOI is submitted for	Permit Modification or Reissuance	provide the existing p	ermit tracking	number:
OPERATION IDENTIFICATION	FION	in the second se			
Operation Name:	rola manning			County:	Beakly
Operation Location/ 85 a	Bill Nenney Red			Latitude:	
DI 1 LA 11	sedom TN 3822(0		Longitude:	
	t receiving water(s):				
	Water/Wastewater Permits have	been obtained for this site, list t	hose permit number	rs:	
Animal Type:	oultry Swine	Dairy Beef	Other		
Number of Animals: 132	Number of Bar	ns: 😉 Nan	ne of Integrator: T	MAZI	
Type of Animal Waste Mana				1001	
(check all that apply)	☐ Liquid ☐ Liquid,	Closed System (i.e. covered tan	k, under barn pit, et	c.)	
Attach the NMP MP	Attached Attach the closure				☐ Wap Attached
PERMITTEE IDENTIFICAT	TION				
Official Contact (applicant)		Title or Position			
Amanda Many	Since	OWever			
America Many	11.63	City:	State:	Zip:	☐ Correspondence
852 Bill Nar Phone number(s)	may Ach	Ochkedom	てい	38886	☐ Invoice
731-223-100					
Optional Contact	1.0	Title or Position:			
Shannon Man	an' rev	owener			
		City.	State	Zip:	☐ Correspondence
852 Bill Nann Phone number(s)	ay Pol	Octodom E-mail	TN	38990	☐ Invoice
731-868-165		Smanning 48	126 amail	·com	
APPLICATION CERTIFICATIO	N AND SIGNATURE (must be sign		~	00-4-505)	
I certify under penalty o	f law that this document ar	nd all attachments were pro	epared under my	direction	or supervision in
	designed to assure that qua				
	he person or persons who m on submitted is, to the best o				
	ties for submitting false info				
	Tennessee Code Annotated S				
Name and title; print or type		Signature	1.0	Dai	te
Amenda men	unding owner	Untered	Wan	my?	8/10/16
STATE USE ONLY					00
Received Date	Reviewer	FO T &	& E Aquatic Fauna	Track	king No.
	Impaired Receiving Stream	High Quality Water		NOC	Date



Declarations to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO regulations that apply to my CAFO operation:

- 1) All animals in confinement are prevented from coming in direct contact with waters of the state.
- 2) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 3) Pesticide-contaminated waters will be prevented from discharging into waste retention structures. Waste from pest control and from facilities used to manage potentially hazardous or toxic chemicals shall be handled and disposed of in a manner that will prevent pollutants from entering waste retention structures or waters of the state.
- 4) Chemicals, manure/litter, and process wastewater will be managed to prevent spills. Spill clean-up plans will be developed and any equipment needed for spill clean-up will be available to facility personnel.
- 5) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 6) All records outlined in the permit that I am applying for will be maintained and available on-site.
- 7) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed or modified after April 13, 2006, are or will be located in accordance with NRCS Conservation Practice Standard 313.
- 8) A copy of the most recent Nutrient Management Plan will be kept as part of the farm records and will be maintained and implemented as written.
- 9) If applicable, all waste directed to under floor pits shall be composed entirely of wastewater (i.e. washwater and animal waste).
- 10) The Tennessee Department of Environment and Conservation Division of Water Resources will be notified of any significant wildlife mortalities near retention ponds or following any land application of animal wastes to fields.
- 11) All employees involved in work activities that relate to permit compliance will receive regular training on proper operation and maintenance (O&M) of the facility and waste disposal. Training shall include appropriate topics, such as land application of wastes, good housekeeping and material management practices, proper O&M of the facility, record keeping, and spill response and clean up. The periodic scheduled dates for such training shall be identified in the current Nutrient Management Plan.

12) There shall be no land application of nutrients within 24 hours of a precipitation event that may cause runoff. The operator shall not land apply nutrients to frozen, flooded, or saturated soils.

Signature of CAFO Owner/Operator

8/10/16 Date

Nutrient Management Plan - Poultry Exporting 100% of Litter Generated

	1. Farmer/ Producer Info	rmation			
	Is ALL litter removed from you apply litter on your land)?* *If the answer is "No," do not con			Yes Please circle	No one
	First Name:	Amola	Amanda		
	Last Name:	mannin	(0)		
	Farm/ Operation Name:	Five 5	tare Far	mS	
	Tennessee County:	Weckly			
	2. Volumes and Calculation	ons			
Car c	Poultry Type:		groiler	Pullet circle the type(s)	Layer
Кеу					anneanneand.
A	Number of birds per house per grow-out:	Ann CC			n a poultry house will ure content, type and
В	Number of Houses:	6	Below is a Table System Calculat	e summarized from tor V10.0 to assist i	rds are kept in house. I the NRCS Poultry In plocing the litter Sist in litter calculations.
		LQ			Avg. Weight of Litter
			Type of Bird	Market/ Mature Weight (lbs)	Produced (lbs)/ Bird / Grow-Out
				small (3.8 - 5 .8)	2.1
С	Number of Grow-Outs / Year:	5	Broilers	large (5.9 - 7+)	2.4
	Average Weight of Litter		Layer	8 - 12	8
	Produced (lbs.)/ Bird / Grow-				
D	Out (see Table at right or use your farm average if known)	2.4	Pullet	5.5	3
	Take Bolded Letters in 1	Key Column Abo	ove and Below to	Assist in Calculatir	ng Values Below
	Number of Birds per Grow-Ou Number of Birds Example: If A = 2 22,000 X 2 = 44,000 number of bir	22,000 and B= 2	132,000 and C= 5.5 then		
E	Number of Birds per Year = A Number of Birds per Year Example 22,000 x 2 x 5.5 = 242,000 number	e: If A = 22,000 ((do), 000 5.5 then:	
	Total Tons of Litter Produced Tons of Litter Produced Example: 242,000 x 2.1 lbs = 508,200 lbs. /	If E = 242,000 a	nd D = 2.1 lbs. th		792

Nutrient Management Plan - Poultry

Exporting 100% of Litter Generated

Litter Storage Capacity Key Storage Capacity within Poultry Houses (cu ft) Length of poultry house (ft) X Width of poultry house (ft) X Height of litter (ft) = cubic feet of storage A Total capacity within poultry barns (cu ft) X number of barns Storage Capacity within Litter Sheds (cu ft) Length of litter shed (ft) X Width of litter shed (ft) X Height of litter (ft) = cubic feet of storage Total capacity within litter storage sheds (cu ft) X number of sheds Total capacity within litter storage sheds (cu ft) X number of sheds C Storage Capacity of Other Storage Areas, if Applicable (cu ft) Total Litter Storage Capacity Onsite (A + B + C) Litter Contents from Manure Analysis (as is basis)* * Manure analyses will be performed annually, and the results will be provided to all parties removing litter from my farm or operation. Laboratory Name House Date of Analysis Total N P ₂ O ₂ * K ₂ O ^b Units lbs./Ton		2. Litter Hand	lling and S	Storage				
Storage Capacity within Poultry Houses (cu ft) Stable No. of Houses Country Length of poultry house (ft) X Width of poultry house (ft) X Height of litter (ft) = cubic feet of storage Cu ft Total capacity within Litter Sheds (cu ft) X number of bams Storage Capacity within Litter Sheds (cu ft) X number of bams Storage Capacity within Litter sheds (cu ft) X Height of litter (ft) = cubic feet of storage B Total capacity within litter storage sheds (cu ft) X number of sheds Total capacity within litter storage sheds (cu ft) X number of sheds Country Cu ft Cu								
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Litter Contents from Manure Analysis (as is basis)* * Manure analyses will be performed annually, and the results will be provided to all parties removing litter from my farm or operation. Laboratory Name House Date of Analysis Total N P ₂ O ₅ * K ₂ O ^b Units lbs./Ton	В	Length of litter she	ed (ft) X Widt	h of litter shed (ft) X He	ight of litter (ft) = cubic fe	et of storage	
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* Manure analyses will be performed annually, and the results will be provided to all parties removing litter from my farm or operation. Laboratory Name House Date of Analysis Total N P ₂ O ₅ ^a K ₃ O ^b Units Ibs./Ton Ibs./To		Total Litter Stora	ge Capacity	Onsite (A + B +C)				91980 cuft
Ibs./Ton		* Manure analyses	will be perf	ormed annually, and the		e provided t	o all parties	removing
Ibs./Ton		Laboratory Name	House	Date of Analysis	Total N	P-O-3	K-O ^b	Units
Ibs./Ton		Laboratory Name	House	Date of Allalysis	Totaliv	F205	K ₂ O	-
Attach laboratory results. If a new facility, provide the source of the estimates used. Notes: N = Nitrogen								
***Attach laboratory results. If a new facility, provide the source of the estimates used. *** Notes: N = Nitrogen P,Os = Phosphorus Oxide If Phosphorus is expressed in analyses as Phosphorus (P), simply multiple P lbs. X 2.3 to convert to P ₂ Os. If Potassium is expressed in analyses as Potassium (K), simply multiple K lbs. X 1.2 to convert to K ₂ O. Mortality Management Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using: Composting Incineration Rendering Other: please circle one *If rendering, include the name and address of renderer.: Closure Plan In the event that poultry production at this location ceases, the following will bedone in 360 days: Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP. All litter in houses will be removed and spread elsewhere according to my current NMP. The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.								
Notes: N = Nitrogen PyOs = Phosphorus Oxide Notes: N = Nitrogen PyOs = Phosphorus Oxide NyO = Potassium Oxide								
Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using: Composting Incineration Rendering* Other: please circle one *If rendering, include the name and address of renderer.: Closure Plan In the event that poultry production at this location ceases, the following will bedone in 360 days: Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP. All litter in houses will be removed and spread elsewhere according to my current NMP. The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.		Nates: N = Nitrogen II Phosphorus is expres	ssed in analyses	P ₂ O ₅ = Phosphorus Oxide as Phosphorus (P), simply mo	ultiple P lbs. X 2.3	K₂O = Potassiur to convert to P	n Oxide ₂ O ₅ .	useu.
Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using: Composting Incineration Rendering* Other: please circle one *If rendering, include the name and address of renderer.: Closure Plan In the event that poultry production at this location ceases, the following will bedone in 360 days: Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP. All litter in houses will be removed and spread elsewhere according to my current NMP. The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.								
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If rendering, include the name and address of renderer.: Closure Plan In the event that poultry production at this location ceases, the following will bedone in 360 days: • Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP. • All litter in houses will be removed and spread elsewhere according to my current NMP. • The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.		Compost	ing)	Incineration	Rende	ering	Other:	
Closure Plan In the event that poultry production at this location ceases, the following will bedone in 360 days: • Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP. • All litter in houses will be removed and spread elsewhere according to my current NMP. • The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.		L		A 14 SECTION AND DESCRIPTION OF THE PROPERTY O				
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 Any dead birds in the houses at the time of closure will be disposed of 		 Any litter/ com and spread else All litter in hou The most curre be provided to 	ewhere account will be a ses will be a sent manure anyone ren	otly in storage at the toording to my current of the spread of the sprea	ime of closur NMP. elsewhere ac y an accredit rm.	re will be re cording to red laborato	moved my current	

Nutrient Management Plan - Poultry

Exporting 100% of Litter Generated

3	Roct Mar	nagement	Practices/	Concerva	tion (Practices
э.	DESCIAIGI	Idecilient	riactices/	COLISELAG	LIVII	latifices

Best Management Practice	Conservation Practices	for Production Ar	eas
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The following site-specific Best Management Practices (BMPs) and conservation practices will be implemented to minimize environmental impacts in production areas (*please indicate all that apply*). The design and implementation of the BMPs will meet minimum standards set in the NRCS Field Office Practice Standard and/or the NRCS Animal Waste Handbook.

	Buffer strips/filter strips
	Silt fencing, riprap, stone gabions, or other structural erosion control
	Maintain roads and heavy traffic areas
	Proper manure/litter storage (i.e. under cover, prevents runoff)
MOSVT.	Balanced diet/ration to prevent excessive nutrients in manure/litter
-17	Regular inspections and maintenance of structures and equipment
	General housekeeping (i.e. cleanup of waste/litter spills during transfers)
	• Other (please describe in detail below, or attach additional pages as needed
	•

Diversion of Clean Water

I certify that:

- Uncontaminated stormwater runoff shall be diverted away from manure, litter, process wastewater, waste
- Clean water will be diverted, as appropriate, from the production area.
- Please provide a brief explanation/description of how clean water will be diverted below:

Poultry Houses are on elevated pad, Diverson Ditenon North side of Houses, Diverson Diten on North side of litter shed

Facility Maintenance

The following maintenance activities will be performed at the facility (please indicate all that apply):
Regular inspections, maintenance, and repair of structures, equipment, and vehicle
Replacement and upgrade of structures, equipment, and vehicles as needed
Regular training of facility personnel in maintenance/housekeeping techniques
 Maintenance of vegetation (i.e. mowing, weeding, seeding)
 Other (please describe in detail below, or attach additional pages as needed):

make sure Diverson distones are Clean

^{*}If your facility has a separate Operation and Maintenance (O&M) Plan, please attach a copy.

Nutrient Management Plan - Poultry

Exporting 100% of Litter Generated

4. Checklist

Use this sheet to help ensure that you have included all required items in order for your CAFO application and Nutrient Management Plan to be approved. Please attach the following items to this worksheet to complete you CAFO permit application.

Forms

- Signed revised Notice of Intent Form
- Signed Declarations to Nutrient Management Plan

Maps



 Full color topographical map of the Farm/ Operation showing property lines and location of poultry houses.

/ Manu

Manure Analysis

Annual Manure Analysis Performed by an Accredited Laboratory

Mail complete packet to:

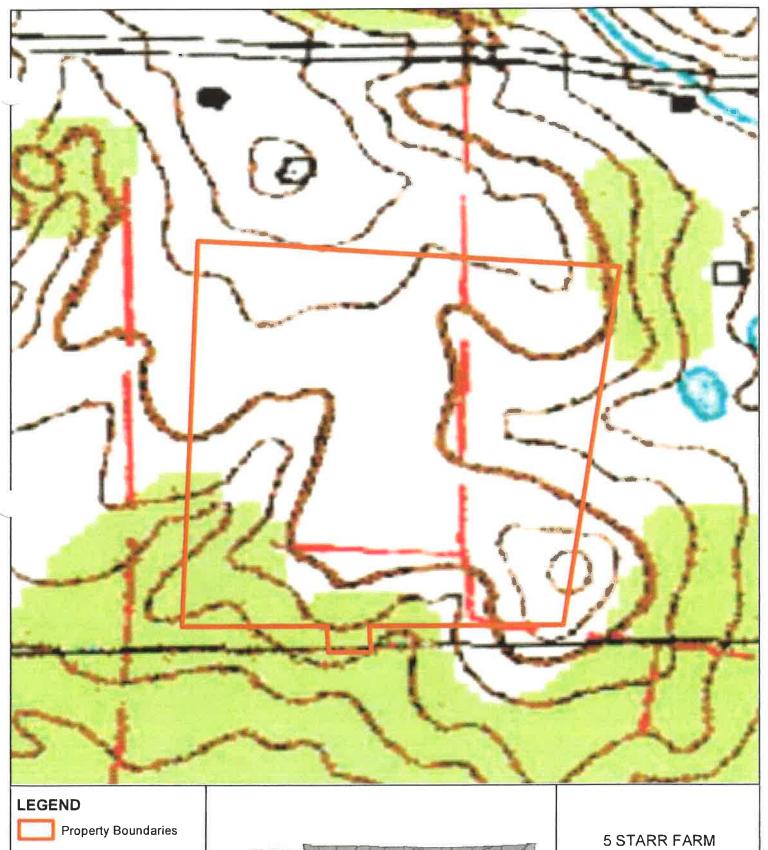
Heidi McIntyre-Wilkinson, Environmental Specialist Ellington Agricultural Center - Holeman Building Nonpoint Source and CAFO Programs P.O. Box 40627 Nashville, TN 37204

The completed packet can also be scanned and sent via electronic mail to: Heidi.McIntyre-Wilkinson@tn.gov

5. Certification

As the owner/operator, I am certifying that I am the decision-maker for this operation. All information included in my CAFO permit application packet is complete and accurate to the best of my knowledge. I understand that I am responsible for the implementation of the NMP and for maintaining all necessary records for the operation.

Signature MONO Date: 9





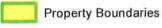
0 0.01250.025 0.05 Miles



5 STARR FARM AMANDA MANNING 852 BILL NANNY ROAD DUKEDOM, TN 38226

SOPC00104







0 0.01250.025

0.05 Miles



5 STARR FARM AMANDA MANNING 852 BILL NANNY ROAD DUKEDOM, TN 38226

SOPC00104



2790 Whitten Road, Memphis, TN 38133 Main 901.213.2400 ° Fax 901.213.2440 www.waypointanalytical.com

LAND APPLICATION ANALYSIS

Client:

Five Starr Farms Mr. Shannon Manning 852 Bill Nanney Road Dukedom, TN 38226 Grower:

Analytical Testing

Report No:

16-252-0306

Cust No:

21114

Date Printed:

09/21/2016

Date Recd :

9/8/2016

PO :

Page:

1 of 1

Lab Number: 95545

Sample Id: M-3

Test	Ana	lysis	Pounds Per Ton		
	As Received	Dry Basis	As Received	Dry Basis	
Nitrogen, N %	3.38	5.87	67.6	117	
Ammoniacal-N					
Phosphorus, P %	1.12	1.94	51.5 P ₂ O ₅	89.4	
Potassium, K %	1.88	3.26	45.1 K ₂ O	78.3	
Sulfur, S %	0.566	0.982	11.3	19.7	
Magnesium, Mg %	0.478	0.829	9.56	16.6	
Calcium, Ca %	3.26	5.66	65.2	113	
Sodium, Na ppm	4360	7570	8.72	15.1	
Iron, Fe ppm	4930	8560	9.86	17.1	
Aluminum, Al ppm	3550	6160	7.10	12.3	
Manganese, Mn ppm	369	641	0.738	1.28	
Copper, Cu ppm	68.4	119	0.137	0.238	
Zinc, Zn ppm	239	415	0.478	0.829	
Boron, B ppm	28.4	49.3	0.056	0.098	

Test	Result
Moisture %	42.4
Solid %	57.6

Additional Information	Result
Туре	Dry Basis

Additional Tests	Result	
Digestion ,	Digested	
Total Chromium , mg/Kg	7.58	
Total Nickel , mg/Kg	8.07	
Total Lead,mg/Kg	2.57	
Total Cadmium,mg/Kg	0.188	

Comments:

RMMA Recommended Methods of Manure Analysis, Peters et al, 2002, In Press SW USEPA, SW-846, Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, 3rd Ed. **Current Revision**



Oscar Ruiz